PATENT Docket No. 5634.140

IN THE CUNITED STATES PATENT AND TRADEMARK OFFICE

Inventors:

John C. Harvey and James W.

Cuddihy

Serial No.:

08/447,447

Filing Date: May 23, 1995

For:

Signal Processing Apparatus and

Methods

Group Art Unit: 2602

Examiner:

Assistant Commissioner for Patents Washington D.C. 20231

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Sir:

In accordance with the duty of disclosure under 37 C.F.R. § 1.56(a) and in conformance with the procedures of 37 C.F.R. §§ 1.97-98 and M.P.E.P. § 609, the attention of the Patent and Trademark Office is hereby directed to the references listed on the attached Form PTO-1449.

The above-referenced application claims priority under 35 U.S.C. § 120 of the following applications:

Serial No.	<u>Filing Date</u>	<u>Patent No.</u>
08/113,329	August 30, 1993	Pending
08/056,501	May 3, 1993	5,335,277
07/849,226	March 10, 1992	5,233,654
07/588,126	September 25, 1990	5,109,414
07/096,096	September 11, 1987	4,965,825

Applicants believe that all references cited on the attached Form PTO-1449 were submitted to the PTO in co-pending U.S. Patent Application Serial No. 08/448,143, filed 23 May 1995. Therefore, no copies of the listed references are provided herewith.

It is respectfully requested that the information above be expressly considered during the prosecution of this application, and that the references be made of record therein and appear among the "References Cited" on any patent to issue therefrom.

CERTIFICATION AND/OR FEE

Since this IDS is being filed pursuant to 37 C.F.R. § 1.97(b) before the later of three months after the filing date of the above-referenced application or the date of receipt of the first Office Action on the merits, no certification or fee is required.

Respectfully submitted,

Thomas J. Scott, Jr. (Reg. No

Dated: April 4, 1996

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	Applicant(s) John C. Harvey and James W. Cuddihy		
Title: Signal Processing Apparatus and Methods	Filing Date May 23, 1995	Group 2602	

U. S. Patent Documents

Examiner Initial	Patent Number	Patent Date	Name	Class / Subclass	Filing Date
	2,510,046	5/30/50	Ellett, et al.	178/5.6	
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	2,892,882	6/30/59	Hughes	178/5.1	
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	4,449,145	5/15/84	Ciciora	358/147	
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^{*-} If pertinent

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^{***-} Claims priority from parent application filed prior to Sep. 11, 1987.

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Foreign Patent Documents

Examiner Initial	Document Number	Publication Date	Country	Class / Subclass	Trans Yes	slation No
	WO 85/03604	8/15/85	PCT Application	H03K 3/84		Х
	0 132 007	1/23/85	European Patent Office	H04N 7/16		х
	2 033 699	5/21/80	Great Britain	H04L 1/10, 1/40		Х
	2 058 681	6/15/72	Germany	H04N 7/08	Х	
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Title: Signal Processing Apparatus and Methods	Filing Date May 23, 1995	Group 2602

Examiner Initial	Author, Title, Date, Pertinent Pages, Etc.	
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Title: Signal Processing Apparatus and Methods	Filing Date Group May 23, 1995 2602	

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Examiner Initial	Patent Number	Patent Date	Name	Class / Subclass	Filing Date*
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Examiner Initial	Patent Number	Patent Date	Name	Class / Subclass	Filing Date*
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	4,454,543	6/12/84	Lund et al.	358/118	
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	4,546,382	10/8/85	McKenna et al.	358/84	
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	4,566,030	1/21/86	Nickerson et al.	358/84	
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	4,641,307	2/3/87	Russell	370/60	
	4,646,075	2/24/87	Andrews et al.	340/747	
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	4,658,093	4/14/87	Hellman	380/25	
	4,677,434	6/30/87	Fascenda	380/23	
	4,677,466	6/30/87	Lert, Jr. et al.	358/84	

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Examiner Initial	Patent Number	Patent Date	Name	Class / Subclass	Filing Date*
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	4,680,581	7/14/87	Kozlik et al.	340/825.06	
	4,684,980	8/4/87	Rast et al.	358/86	
	4,685,056	8/4/87	Barnsdale, Jr. et al.	364/200	
	4,685,131	8/4/87	Horne	380/20	
	4,688,247	8/18/87	Davidov	380/19	
	4,689,022	8/25/87	Peers et al.	434/307	
	4,689,619	8/25/87	O'Brien, Jr.	340/825.08	
	4,692,817	9/8/87	Theis	360/12	
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	4,695,953	9/22/87	Blair et al.	364/410	4/14/86
	4,696,034	9/22/87	Wiedemer	380/16	10/12/84
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	4,701,794	10/20/87	Fröling et al.	358/147	4/12/85
	4,706,121	11/10/87	Young	358/142	5/6/86
	B1 4,706,121	12/14/93	Young	358/142	5/6/86
	4,706,282	11/10/87	Knowd	380/3	12/23/85

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	4,712,105	12/8/87	Köhler	340/825.69	4/30/85
	4,712,238	12/8/87	Gilhousen et al.	380/20	6/8/84
	4,712,239	12/8/87	Frezza et al.	380/20	6/16/86
	4,722,526	2/2/88	Tovar et al.	273/1 E	1/20/87
	4,724,491	2/9/88	Lambert	358/310	8/28/84
	4,725,886	2/16/88	Galumbeck et al.	358/147	4/21/83
	4,728,949	3/1/88	Platte et al.	340/825.37	3/23/84
	4,731,679	3/15/88	O'Gwynn et al.	360/73	9/20/84
	4,733,301	3/22/88	Wright, Jr.	358/181	6/26/87
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	4,739,510	4/19/88	Jeffers et al.	380/15	4/2/87
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	B1 4,745,468	6/11/91	Von Kohorn	358/84	3/10/86

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	4,747,139	5/24/88	Taaffe	380/44	10/21/86
	4,748,560	5/31/88	Kataoka	364/200	10/11/85
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	4,754,326	6/28/88	Kram et al.	364/900	10/25/83
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	4,761,646	8/2/88	Choquet et al.	340/825.520	5/20/86
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	4,768,110	8/30/88	Dunlap et al.	360/33.1	5/6/87
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	4,775,935	10/4/88	Yourick	364/401	9/22/86
	4,783,846	11/8/88	Wachob	455/151	6/4/87
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	4,787,063	11/22/88	Muguet	364/900	10/16/85
	4,787,085	11/22/88	Suto et al.	370/110.1	5/29/87
	4,789,863	12/6/88	Bush	340/825.350	1/13/88***
	4,792,849	12/20/88	McCalley et al.	358/86	8/4/87
	4,792,973	12/20/88	Gilhousen et al.	380/24	12/4/87***
	4,802,114	1/31/89	Sogame	364/900	12/15/86
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	4,805,014	2/14/89	Sahara et al.	358/86	9/14/87***
	4,812,843	3/14/89	Champion, III et al.	340/905	8/11/87
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	4,821,032	4/11/89	Shimada et al.	340/825.210	12/23/85
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	4,827,508	5/2/89	Shear	380/4	10/14/86
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	4,833,710	5/23/89	Hirashima	380/20	12/3/87***
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	4,847,698	7/11/89	Freeman	358/343	7/16/87
	4,847,699	7/11/89	Freeman	358/343	7/16/87
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	4,860,379	8/22/89	Schoeneberger et al.	455/5	10/20/88***
	4,866,706	9/12/89	Christophersen et al.	370/85.7	8/27/87
	4,868,866	9/19/89	Williams, Jr.	380/49	2/18/88***
	4,876,592	10/24/89	Von Kohorn	358/84	5/10/88***
	4,887,172	12/12/89	Steele	360/73.06	4/10/87
	4,888,796	12/19/89	Olivo, Jr.	379/101	8/31/87
	4,890,321	12/26/89	Seth-Smith et al.	380/20	9/30/88***
	4,893,248	1/9/90	Pitts et al.	364/464.01	. 2/6/87
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	4,974,252	11/27/90	Osborne	379/92	10/4/88***
	4,977,594	12/11/90	Shear	380/4	2/16/89***
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	5,034,807	7/23/91	Von Kohorn	358/84	10/19/89***
	5,036,537	7/30/91	Jeffers et al.	380/20	4/3/87
	5,045,848	9/3/91	Fascenda	340/825.26	9/29/87***
	5,050,213	9/17/91	Shear	380/25	8/6/90***
	5,057,915	10/15/91	Von Kohorn	358/84	10/25/90***
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	5,083,271	1/21/92	Thacher et al.	364/411	8/3/88***
	5,089,885	2/18/92	Clark	358/86	8/1/88***
	5,128,752	7/7/92	Von Kohorn	358/84	10/25/90***
	5,140,419	8/18/92	Galumbeck et al.	358/142	12/21/89***
	5,144,663	9/1/92	Kudelski et al.	380/16	11/13/90***
	5,152,011	9/29/92	Schwob	455/158.5	6/19/90***
	5,152,012	9/29/92	Schwob	455/158.5	4/27/90***
	5,172,111	12/15/92	Olivo, Jr.	340/825.31	12/18/89***
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	5,208,665	5/4/93	McCalley et al.	358/86	2/15/91***
	5,216,552	6/1/93	Dunlap et al.	360/33.1	8/30/88***
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	Re. 34,034	8/18/92	O'Sullivan	379/59	9/29/89***

^{*-} If pertinent

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Examiner	Document	Publication	Country	Class /	Trans	slation
Initial	Number	Date		Subclass	Yes	No
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^{***-} Claims priority from parent application filed prior to Sep. 11, 1987.

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0 152 251	8/21/85	European Patent Appl.	H04H 1/02		Х
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			H04K 1/04		
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			H04M 15/00		

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Title: Signal Processing Apparatus and Method	Filing Date May 23, 1995	Group 2602

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Information Disclosure Statement by Applicant	Attorney Docket No. 5634.140	Serial No. 08/447,447
	Applicant(s) John C. Harvey <i>and</i> James W. Cuddihy	
Title: Signal Processing Apparatus and Method	Filing Date May 23, 1995	Group 2602

Examiner	
Initial	Author, Title, Date, Pertinent Pages, Etc.
	"The Most Exciting Customer and Revenue Building Program Since Sports were First Shown on T.V.", NTN Communications, Inc., QB1 product brochure, 1986, 4 pages.
	"NTN - The Company," NTN Communications, Inc., company description, 1 page.
	NTN Communications, Inc., "Trivia Countdown," and "Trivia Showdown," product descriptions, 1 page.
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"CAMP," Arbitron Cable, The Arbitron Company, product brochure, May 1980	
	"Times Mirror Videotex/Infomart Joint Venture," <u>Times Mirror</u> , Background, Jan. 8, 1982, 3 pages.
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	True Stereo Television, Series 1600 Warner-Amex Stereo Processers, Wegener Communications, Inc., product description, 1982, 3 pages.
	"EUROM - a single-chip c.r.t. controller for videotex," Mullard, Technical publication, 1984, 12 pages.
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Initial	Author, Title, Date, Pertinent Pages, Etc.
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	"Satellite-Delivered Text Service Signs 4 Carriers," Multichannel News, Jun. 18, 1984, p. 18.
	Aarsteinsen, Barbara, "How the Chip Spurs TV Growth," "The promise of digital television has stirred the U.S. Industry," <u>The New York Times</u> , May 20, 1984, 1 page.
	Pollack, Andrew, "As Usual, Here Come The Japanese," The New York Times, May 20, 1984, 1 page.
	"Unleashing IBM Could Help A Satellite Venture Blast Off," <u>Business Week</u> , May 28, 1984, 2 pages.
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Examiner	
Initial	Author, Title, Date, Pertinent Pages, Etc.
	"HOMECAST, A Consumer Market Service from ICM Services," Chase Econometrics, product brochure, 2 pages.
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	DOWNLOAD, Monthly Newsletter, Vol. 1, No. 1, May 1984.
	Nocera, Joseph, "Death of a Computer," <u>Texas Monthly</u> , April 1984.
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Examiner Initial	Author, Title, Date, Pertinent Pages, Etc.	
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	"In this corner, DIGISONICS!", Media Decisions, June 1968, 5 pages.	
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	Cooney, John E., "Counting Cable's Gold Coins," View, Sep., 1981, 4 pages.	
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	"IDC begins monitoring," At Deadline, <u>Broadcasting</u> , Sep. 14, 1970, p. 9.	
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Initial	Author, Title, Date, Pertinent Pages, Etc.
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	"Digisonics' Aim Is Info Bank, Not Just Proof of Performance," Advertising Age, Nov. 9, 1970, 4 pages.
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•	"No Digisonics friends show in comments," <u>Broadcasting</u> , May 24, 1971, p. 62.
	"Digisonics' dilemma," <u>Media Decisions</u> , June 1971, 6 pages.
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Examiner	
Initial	Author, Title, Date, Pertinent Pages, Etc.
	"NTN Communications, Inc. Entertainment Network Program Schedule," Advertisement, NTN Communications, Inc., 2 pages.
	"Interactive Football For The Home," Advertisement, U.S. Videotel, 2 pages.
	"NTN Programming," Advertisement, NTN Communications, Inc., 2 pages.
	"Electronic Surveys, Inc. Signs NTN Contract," News Release, NTN Communications, Inc. Carlsbad, CA, 2 pages.
	Andrews, Edmund L., "AT&T Sees the Future in Games," The New York Times, Business Day, 2 pages.
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	"PSN Signs Fourth High Technology Customer As Amdahl Corporation Implements Business Television," PSN News, News Release, Private Satellite Network, Inc., 2 pages.
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Author, Title, Date, Pertinent Pages, Etc.	
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"New In Teleconferencing Resources," advertisement, Parker Associates, 4 pages.	
"Business Television Services," Irwin Communications, Inc., brochure, 1 page.	
"Corporate Capabilities," Irwin Communications, Inc., brochure, 1 page.	
"Introducing RSVP: The latest breakthrough for cable!", advertisement, ARBITRON, 1 page.	
"Viacom Unit Will Tap Into Pay Networks," newspaper article, 1 page.	
"SHOW or TELL?", Advertising material, The Weather Star 4000, The Weather Channel, 8 pages.	
"Video Hi-Tech Component TV," CV 1950, CV 510, CV 540, CV 520, CV 150," advertisement, Zenith Radio Corporation, 4 pages.	
"Point-To-Multipoint Data Communication Network Services," product description, Equatorial Communications Company, 5 pages.	
"C-100 Series Micro Earth Stations for Satellite Data Distribution," product description, Equatorial Communications Company, 4 pages.	
"C-200 Micro Earth Station for Satellite Data Communications," product description, Equatorial Communications Company, 3 pages.	

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Author, Title, Date, Pertinent Pages, Etc.	
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"Data Communications Network Description," product description, Equatorial Communications Company, 5 pages.	
Landro, Laura, "Satellite Company Signs Merrill Lynch For Its Video Service," <u>The Wall Street Journal</u> , 1 page.	
"ELITE 2000 Creation System," IBM Compatible Information Display System, advertisement, Display Systems International, Inc., 1 page.	
"Video Database Management When Words Are Not Enough," advertisement, U.S. Video, 2 pages.	
"U.S. Video presents True Computer-Video Overlays," The Raster Master RM-110, product description, U.S. Video, 2 pages.	
"Now You Can Find Just The Right Image Every Time Quickly and Easily with Image Search and The IBM PC/XT," advertisement, ONLINE Computer Systems, Inc., 1 page.	
"Touch the Future Today," advertisement, MetaMedia Systems, Inc., 1 page.	
"Training solutions for the 80's and beyond," advertisement, ONLINE Computer Systems, Inc., 2 pages.	
"Experienced Educator/Trainers," "Use the new PILOT plus Training System to develop highly interactive courseware on your IBM PC that will run on most microcomputers," advertisement, ONLINE Computer Systems, Inc., 2 pages.	

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Examiner		
Initial	Author, Title, Date, Pertinent Pages, Etc.	
	"Technical Specifications For Hardware And Software Products," Online Products Corporation, 9 pages.	
	"Museum Image Series," product information, ONLINE Products Corporation, 2 pages.	
	"OMEGA VISION," product description, Omega Management Group Corp., 2 pages.	
	"VISAGE Visual Information Systems," Interactive Video Products, brochure, Visage, Inc.	
	"Now The Future Is Clear," Visage Visual Information Systems, brochure, Visage, Inc., 4 pages.	
	"Speak Through The Power Of Today's Technology," QUEST, product description, Allen Communication, 4 pages.	
	"Universal Video Controller," product description, Allen Communication, 2 pages.	
	"Video-Microcomputer Interface," product description, Allen Communication, 2 pages.	
	"The Leader In Interactive Video," advertisement, Allen Communication, 2 pages.	
	"Allen Communication Price List," Allen Communication, 1 page.	
	"TOUCHÉ Interactive videodisc training by IIAT," advertisement, IIAT, International Institute of Applied Technology, Inc., 1 page.	
	"TOUCHÉ Interactive Videodisc System," product description, IIAT, International Institute of Applied Technology, Inc., 2 pages.	

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Examiner Initial	Author, Title, Date, Pertinent Pages, Etc.		
Initial	<u> </u>		
	"IIAT ST-1000A IIAT Training Station," product description, IIAT, International Institute of Applied Technology, Inc., 2 pages.		
	"IIAT ST-1000B IIAT Training Station," product description, IIAT, International Institute of Applied Technology, Inc., 2 pages.		
	"IIAT International Institute of Applied Technology, Inc.," company description, 4 pages.		
	"PILOT plus Course Authoring Interpreter," IIAT Products, product description, 1 page.		
	"Touch Monitor/Videodisc Player Interface Card and Video Switch Box," IIAT Products, product description, 1 page.		
	"Touch Sensitive Monitor Interface Card for Apple II," IIAT Products, product description, 1 page.		
	"Touchpoint, A Total Eclipse of Existing Technology," product description, Allen Communication, 2 pages. "Totally Integrated Interactive System - TII-PC," product description, Allen Communication, 2 pages.		
-	"Most Valuable Peripheral," product description, Allen Communication, 2 pages.		
	"Allen Communication Introduces Integrated Interactive Video Systems," brochure, 2 pages.		
	"Automation, Control and Monitoring Systems," brochure, Jasmin Electronics Limited.		
	"jasmin," company brochure, Jasmin Electronics Limited, 4 pages.		
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Examiner	
Initial	Author, Title, Date, Pertinent Pages, Etc.
	"jasmin Teletext Systems," advertisement, Jasmin Electronics Limited, 4 pages.
"jasmin Process Control Systems," advertisement, Jasmin Electronics Limited,	
	"Teleprompter of Denver Channel Line Up," 2 pages.
	"City of Seal Beach Channel Utilization Guide," 3 pages.
	"V: Link 1910: The Single-Slot VGA Interactive Video Solution," product description, Visage, Inc., 4 pages.
	"The OASYS Authoring System," advertisement, ONLINE Computer Systems, Inc., 1 page.
	"Advertisers Guide to Cable TV Terms," brochure, Cable Ad Associates, Inc.
	"Cable Audience Measurement Study," A Prospectus based upon recommendations of the Ad Hoc Cable Measurement Committee, pamphlet.
	Kane, Sharyn et al., "Technology in the First Person," reprint from Delta Air Lines' SKY magazine, 4 pages.
	"Training Systems," brochure, WICAT systems, Training Systems Division, 4 pages.
	"The Consultant," advertisement, CO-OPPORTUNITIES, Sales Development Information Systems, a division of Jefferson-Pilot Communications Company.
	"Introducing SPOT DATA," "Cable Ad Sales Just Got Better," advertisement, TV Data Technologies, 4 pages.

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Initial	Author, Title, Date, Pertinent Pages, Etc.
	"Do You Want to be Making \$5-\$10 a Subscriber - Right Now?" "Join Us in Our Success!", advertisement, Multi-Image Systems, 1 page.
	"Mediastar," "the message is clear," brochure, Multi-Image Systems, 6 pages.
	"Art To Go" "The Business Builder in a Box," advertisement, Multi-Image Systems, 1 page.
	"Few Things In Life Work As Well As TAPSCAN," advertisement, TAPSCAN Incorporated, 6 pages.
	"Dow Jones Cable News Service Daily Features Financial Markets," product summary, 1 page.
	"Financial News Network The Business Connection," brochure, Financial News Network, 8 pages.
	"The Financial News Network Means Business," advertisement, The Financial News Network, 1 page.
	"The Dawn of a New Era in Financial News Broadcasting," advertisement, Financial News Network, 1 page.
	"FNN Financial News Network," advertisement, brief review of research from the Stanford Research Institute's VALS study, and research from ELRA Group Cablemark Reports Volume I, 4 pages.
	"Industrial Skills Training With The Touch Of A Finger Introducing Activ," Advanced Concepts in Touch-Interactive Video, advertisement, Industrial Training Corporation, 4 pages.

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	"eca," brochure, Effective Communication Arts, Inc., 4 pages.
	"ODC 612 Encoder/Generator," product description, Optical Disc Corporation, 2 pages.
	" the Recordable Laser Videodisc - RLV," product description, Optical Disc Corporation, 2 pages.
	"ODC 610 Videodisc Recording System," product description, Optical Disc Corporation, 2 pages.
·	"Hitachi New CD-ROM Drive CDR-2500," product description, Hitachi, Ltd., 2 pages.
	"Hitachi CD-ROM Drive CDR-1502S," product description, Hitachi, Ltd., 6 pages.

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